3d Ed. (1981), pp. 166-167, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or to: http://www.archives.gov/ federal\_register/

code of federal regulations/ ibr locations.html.

- (c) In accordance with §184.1(b)(1), the ingredient is used in food with no limitation other than current good manufacturing practice.
- (d) Prior sanctions for this ingredient different from the uses established in this section do not exist or have been waived.

[48 FR 51150, Nov. 7, 1983]

## §184.1408 Licorice and licorice deriva-

(a)(1) Licorice (glycyrrhiza) root is the dried and ground rhizome and root portions of Glycyrrhiza glabra or other species of Glycyrrhiza. Licorice extract is that portion of the licorice root that is, after maceration, extracted by boiling water. The extract can be further purified by filtration and by treatment with acids and ethyl alcohol. Licorice extract is sold as a liquid, paste ("block"), or spray-dried powder.

(2) Ammoniated glycyrrhizin is prepared from the water extract of licorice root by acid precipitation followed by neutralization with dilute ammonia. Monoammonium glycyrrhizinate  $(C_{42}H_{61}O_{16}NH_45H_2O, CAS Reg. No. 1407-$ 03-0) is prepared from ammoniated glycyrrhizin by solvent extraction and separation techniques.

(b) The ingredients shall meet the following specifications when analyzed:

(1) Assay. The glycyrrhizin content of each flavoring ingredient shall be determined by the method in the Official Methods of Analysis of the Association of Official Analytical Chemists, 13th Ed., §§ 19.136-19.140, which is incorporated by reference, or by methods 19.CO1 through 19.CO4 in the Journal of

the Association of Official Analytical Chemists, 65:471-472 (1982), which are also incorporated by reference. Copies of all of these methods are available from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/ federal\_register/ code\_of\_federal\_regulations/

ibr locations.html.

(2) Ash. Not more than 9.5 percent for licorice, 2.5 percent for ammoniated glycyrrhizin, and 0.5 percent for monoammonium glycyrrhizinate on an anhydrous basis as determined by the method in the Food Chemicals Codex, 3d Ed. (1981), p. 466, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or http://www.archives.gov/ to: federal register/

code of federal regulations/ ibr locations.html.

- (3) Acid unsoluble ash. Not more than 2.5 percent for licorice on an anhydrous basis as determined by the method in the Food Chemicals Codex, 3d Ed. (1981), p. 466, which is incorporated by reference.
- (4) Heavy metals (as Pb). Not more than 40 parts per million as determined by method II in the Food Chemicals Codex, 3d Ed. (1981), p. 512, which is incorporated by reference.
- (5) Arsenic (As). Not more than 3 parts per million as determined by the method in the Food Chemicals Codex. 3d Ed. (1981), p. 464, which is incorporated by reference.
- (c) In accordance with §184.1(b)(2), these ingredients are used in food only within the following specific limitations:

## § 184.1409

Category of food	Maximum level in food (percent glycyrrhizin content of food) (as served)	Functional use
Baked foods, § 170.3(n)(1) of this chapter	0.05	Flavor enhancer, §170.3(o)(11) of this chapter; flavoring agent, §170.3(o)(12) of this chapter.
Alcoholic beverages, § 170.3(n)(2) of this chapter	0.1	Flavor enhancer, §170.3(o)(11) of this chapter; flavoring agent, §170.3(o)(12) of this chapter; surface-active agent, §170.3(o)(29) of this chapter.
Nonalcoholic beverages, § 170.3(n)(3) of this chapter	0.15	Do.
Chewing gum, § 170.3(n)(6) of this chapter	1.1	Flavor enhancer, § 170.3(o)(11) of this chapter; flavoring agent, § 170.3(n)(12) of this chapter.
Hard candy, § 170.3(n)(25) of this chapter	16.0	Do.
Herbs and seasonings, § 170.3(n)(26) of this chapter	0.15	Do.
Plant protein products, § 170.3(n)(33) of this chapter	0.15	Do.
Soft candy, § 170.3(n)(38) of this chapter	3.1	Do.
Vitamin or mineral dietary supplements	0.5	Do.
All other foods except sugar substitutes, § 170.3(n)(42) of this chapter. The ingredient is not permitted to be used as a nonnutritive sweetener in sugar substitutes.	0.1	Do.

(d) Prior sanctions for this ingredient different from the uses established in this section do not exist or have been waived

[50 FR 21044, May 22, 1985, as amended at 54 FR 24899, June 12, 1989]

## §184.1409 Ground limestone.

- (a) Ground limestone consists essentially (not less than 94 percent) of calcium carbonate (CaCO<sub>3</sub>) and is prepared the crushing, grinding, classifying of naturally occurring lime-
- (b) The ingredient meets the specifications of the Food Chemicals Codex, 3d Ed. (1981), p. 173, which is incorporated by reference. Copies are available from the National Academy Press, 2101 Constitution Ave. NW., Washington, DC 20418, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or to: http://www.archives.gov/ federal register/
- code\_of\_federal\_regulations/ ibr locations.html.
- (c) In accordance with §184.1(b)(1), the ingredient is used in food with no limitation other than current good manufacturing practice.
- (d) Prior sanctions for this ingredient different from the uses established in this section do not exist or have been waived.

[48 FR 52442, Nov. 18, 1983]

## §184.1415 Animal lipase.

- (a) Animal lipase (CAS Reg. No. 9001-62-1) is an enzyme preparation obtained from edible forestomach tissue of calves, kids, or lambs, or from animal pancreatic tissue. The enzyme preparation may be produced as a tissue preparation or as an aqueous extract. Its characterizing enzyme activity is that of a triacylglycerol hydrolase (EC 3.1.1.3).
- (b) The ingredient meets the general requirements and additional requirements for enzyme preparations in the Food Chemicals Codex, 3d ed. (1981), p. 110, which is incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies are available from the National Academy Press, 2101 Constitution Ave., NW., Washington, DC 20418, or may be examined at the Office of Premarket Approval (HFS-200), Food and Drug Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, and at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or to: http://www.archives.gov/ federal register/
- code of federal regulations/
- ibr locations.html. (c) In accordance with §184.1(b)(1), the ingredient is used in food with no limitation other than current good manufacturing practice. The affirmation of this ingredient as GRAS as a direct food ingredient is based upon the